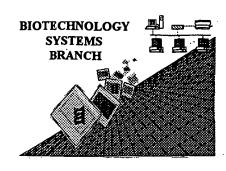
# BEST AVAILABLE COPY

#### RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable

Application Serial Number: Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- TECH CENTER 1600/2900 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>>, EFS Submission User Manual - ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
  - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, 1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202
  - U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202
- 4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202

Input Set : N:\EBONY'S\ES.txt

```
5 <110> APPLICANT: Genentech, Inc.
      7
              Ashkenazi, Avi
                                        su p. 36
      9
              Botstein, David
                                                                        Does Not Comply
     11
              Desnoyers, Luc
                                                                    Corrected Diskette Needed
     13
              Eaton, Dan L.
     15
              Ferrara, Napoleone
                                                                      17
              Filvaroff, Ellen
     19
              Fong, Sherman
     21
              Gao, Wei-Qiang
     23
              Gerber, Hanspeter
     25
              Gerritsen, Mary E.
     27
              Goddard, A.
              Godowski, Paul J.
     29
     31
              Grimaldi, Christopher J.
     33
              Gurney, Austin L.
     35
              Hillan, Kenneth, J.
     37
              Kljavin, Ivar J.
     39
              Mather, Jennie P.
     41
              Pan, James
     43
              Paoni, Nicholas F.
     45
              Roy, Margaret Ann
     47
              Stewart, Timothy A.
     49
              Tumas, Daniel
     51
              Williams, P. Mickey
              Wood, William, I.
     57 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
              Acids Encoding the Same
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     63 <130> FILE REFERENCE: 10466-14
     67 <140> CURRENT APPLICATION NUMBER: 09/665,350A
     69 <141> CURRENT FILING DATE: 2000-09-18
     73 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414
W--> 75/<151> PRIOR FILING DATE: 2000
W--> 77 22
     ^{/81} <150> PRIOR APPLICATION NUMBER: US 60/143,048
     83 <151> PRIOR FILING DATE: 1999
                                                                         see 37
     85 07
     89 <150> PRIOR APPLICATION NUMBER: US 60/145,698
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W--> 101 28
     105 <150> PRIOR APPLICATION NUMBER: PCT/US99/20594
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     113 <150> PRIOR APPLICATION NUMBER: PCT/US99/20944
   > 115 <151> PRIOR FILING DATE: 1999
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RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

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121 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090

W--> 123 <151> PRIOR FILING DATE: 1999

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W--> 165 02

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W--> 171 <151> PRIOR FILING DATE: 1999

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W--> 179 <151> PRIOR FILING DATE: 1999

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W--> 189 20

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197 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219

W--> 199 <151> PRIOR FILING DATE: 2000

W--> 201 05

E--> 205 <160> NUMBER OF SEQ ID NOS: 423

#### ERRORED SEQUENCES

369 <210> SEQ ID NO: 2

371 <211> LENGTH: 353

373 <212> TYPE: PRT

375 <213> ORGANISM: Homo Sapien

379 <400> SEQUENCE: 2

381 Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu

383 10 387 Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro

20

393 Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met

395 40

Input Set : N:\EBONY'S\ES.txt

```
399
       Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp
   401
   405
       Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
   407
   411
       Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
   413
                                  85
   417
       Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
   419
                   95
                                 100
   423
       Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
   425
                  110
                                 115
   429
       Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
   431
   435
       Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
   437
   441
       Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
   443
                  155
                                 160
   447
       Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
   449
Mon-ASUI characters

Their may indicate

format marker or

11e a corrupted
195
Thr
210

disk sector
      E--> 475 ???????????????????++++++++?%++++++++*
E--> 477
       Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
   479
                                 190
   483
       Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
   485
                  200
                                 205
                                               210
   489
       Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
   491
                                 220
   495
       Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro
   497
                  230
                                 235
   501
       Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr
   503
                                 250
   507
       Cys Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly
   509
   513
       Pro Gly Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His
   515
                  275
                                 280
      Gly Gln Cys Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr
   519
   521
                  290
                                 295
   525
       Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr
   527
                  305
                                 310
                                               315
```

Input Set : N:\EBONY'S\ES.txt

```
Val Cys Val Cys Pro Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys
     531
     533
                         320
                                            325
     537
         Val Pro Pro Ala Glu Ala Glu Ala Thr Glu Gly Glu Ser Pro Thr
     539
                         335
     543
         Gln Leu Pro Ser Arg Glu Asp Leu
     545
                         350
     737 <210> SEQ ID NO: 4
     739 <211> LENGTH: 379
     741 <212> TYPE: PRT
     743 <213> ORGANISM: Homo Sapien
     747 <400> SEQUENCE: 4
         Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Leu Trp Leu Trp
     751
     755
         Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
     757
     761
         Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
     763
                          35
                                             40
     767
         Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
     769
                          50
                                             5.5
     773
         Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
     775
                                             70
                          65
     779
         Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
     781
                          80
                                             85
     785
         Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser
     787
     791
         Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn
    793
                         110
     797
         Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln
     799
                         125
                                            130
    803
         Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe
    805
                         140
                                            145
    809
         Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu
    811
                         155
                                            160
    815
         Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala
    817
                         170
                                            175
    821
         Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg
    823
                        185
                                            190
    827
         Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu
    829
                         200
                                            205
    833
         Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys Val
    835
                                            220
    839
         Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
    841
                         230
    845
         Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr
    847
                        245
                                            250
    851
         Cys Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly
                                            265
some end
supp 5-6
```

Input Set : N:\EBONY'S\ES.txt

```
E--> 863 ?????????????????????++++++++; `++++++*
E--> 869 ++?%++++++++???5???5?????5????o?5???5?o????+++++++
E--> 881 ?????????????????????????+++++++*; \+++++++*
+?????????????????????????????+++++++;`++++++
E--> 905 ?+++++++?`+++++++++?%+++++++++?????5????????5?o??++++++++??
```

Input Set : N:\EBONY'S\ES.txt

```
971 ?????????????++++++++?&+++++++*,`+++++++?????????5?5?
E--> 989 ????????????????++++++++?%+++++++?\+++++++???5???o?
E--> 991 ??????4?????5????????+++++++??++++++??++++++??
E--> 1007 ????????????????????+++++++?%++++++++*
E--> 1009
    Glu Gln Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly
  1011
            275
                    280
                             285
  1015
    Gly Lys Cys Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr
  1017
            290
                    295
  1021
    Gln Gly Asp Leu Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly
  1023
            305
                    310
  1027
    Ala His Gly Thr Cys His Glu Pro Asn Lys Cys Gln Cys Gln Glu
  1029
            320
                    325
  1033 Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu
  1035
            335
                    340
  1039
    Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr
  1041
            350
  1045
    Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser
  1047
                    370
EX-> 1051 Asn Tyr Ile Trp
  2325 <210> SEQ ID NO: 28
                 pr 7-13
  2327 <211> LENGTH: 660
  2329 <212> TYPE: PRT
  2331 <213> ORGANISM: Homo Sapien
  2335 <400> SEQUENCE: 28
    Met Gly Leu Gln Thr Thr Lys Trp Pro Ser His Gly Ala Phe Phe
  2337
  2339
                     10
    Leu Lys Ser Trp Leu Ile Ile Ser Leu Gly Leu Tyr Ser Gln Val
```

25

30

Input Set : N:\EBONY'S\ES.txt

20

2345

	2343					20					23					30
	2349	Ser	Lys	Leu	Leu	Ala	Cys	Pro	Ser	Val	Cys	Arg	Cys	Asp	Arg	Asn
	2351					35					40					45
	2355	Phe	Val	Tyr	Cys	Asn	Glu	Arg	Ser	Leu	Thr	Ser	Val	Pro	Leu	Gly
	2357					50					55					60
	2361	Ile	Pro	Glu	Gly	Val	Thr	Val	Leu	Tyr	Leu	His	Asn	Asn	Gln	Ile
	2363				-	65				-	70			-		75
	2367	Asn	Asn	Ala	Glv	Phe	Pro	Ala	`Glu	Leu	His	Asn	Va1	G1n	Ser	
	2369				1	80					85			<b>0</b>	-00	90
	2373	His	Thr	Val	Tur		ጥህን	Glv	Δcn	Gln		Δsn	Glu	Dh△	Pro	
	2375	*****	1111	vu.	- 7 -	95	- y -	OL,	11511	OLII	100	1150	OIU	1 110	110	105
	2379	λen	LOU	Pro	Tvc	_	Val	λνα	Wa 1	T OII		Lou	Cln	Clu	λan	
	2381	ASII	Leu	FIO	цуз	110	Vai	AIG	Val	ьец	115	цец	GIII	Giu	ASII	120
	2385	T10	C1 n	mh w	т1.		7 ~~	710	710	т он		015	т о	т	T	
		ire	GIII	Thr	тте		Arg	Ата	Ald	Leu		GIII	Leu	ьeu	гаг	
	2387	<i>α</i> 1	<b>01.</b> .	T	TT	125	3	3	7	Q	130	<b>a</b>	m 1	**- 1	<b>a</b> 1	135
	2391	GIU	GIU	Leu	HIS		Asp	Asp	ASII	ser		ser	Thr	vai	GLY	
	2393			. 🗙		140					145					150
		+?++-														
		5555														
		5555														
		33333														
		33333														
E>	2405	?o?5	5555	20257	53333	25???	???5?	5555	??++-	++++	+++?-	++++	++++	+?++	++	
E>	2407	++++-	+3333	55555	5555	5555	55555	5555	5555	5555	?+++	++++	+3,+-	++++	F	
E>	2409	++?%-	+++-	++++7	5550	5555	24???	25???	5555	5555	5555	5555	++++	++++		
E>	2411	33++-	++++	++??+	++++	+++;	55555	5555	5555	5555	5555	5555	33333	555		
E>	2413	33++-	++++	++3,4	++++	++++	?%++4	+++-	++???	55553	22333	5555	5555	55555	??	
E>	2415	?5???	5555-	++++	++++	??++-	++++	+433-	+++-	++++7	5555	5555	5555	55555	??	
E>	2417	33333	33333	55555	777+	++++	+++3,	++++	+++-	+?%++	++++	+++?	53336	2577	??	
E>	2419	33330	23333	55555	.5555	5555	2+++4	++++	+33+-	++++	+++??	?+++	++++	+3333	5.5	
E>	2421	55555	5555	55555	3333	+++	++++	+3333	5555	55555	5555	5555	5555	5.5		
E>	2423	33333	5555	55555	, , , , ,	55553	55555	5555	5555	55555	33333	5555	5.5			
E>	2425	33553	5555	55555	5555	5555	55555	5555	5555	55555	55555	5555	555			
E>	2427	33333	5555	55555	,5555	5555	55555	55555	5555	55555	3333	5555	555			
E>	2429	33333	55553	55555	,5555	53333	55555	5555	5555	55555	2333	5555	??			
E>	2431	55555	55555	55555	3333	5355	55555	55555	5555	55555	.5555	33333	555			
E>	2433	33333	5555	55555	,5555	5555	55555	3333	5555	55555	3333	5555	5.5			
E>	2435	33333	5555	55555	3333	5555	55555	3333	2222	55555	2555	5555	??			
E>	2437	33333	25555	2222	2555	5555	23333	?4??	2555	55555	2555	5555	??			
E>	2439	33333	55555	2222	???47	33333	23333	2333	2555	23333	2555	3333	5.5			
E>	2441	33333	?????	?????	????	2777	?????	2777	?????	?????	????4	13333	??			
E>	2443	33333	?????	2222	2222	2777	55553	2777	??4??	?????	2777	2777	5.5			
E>	2445	33333	2333	2222	3333	2222	2222	????	?????	?????	????	2223	??			
E>	2447	22222	?????	?????	????	2333	?????	?????	2777	23333	2222	2222	3.5			
E>	2449	22222	2222	2222	2222	2777	?????	2222	2222	?????	?????	2222	??			
E>	2451	22222	?????	?????	????	????	4???	????	????	?????	????	2222	??			
E>	2453	33333	2222	2222	2222	????	????4	????	????	?????	????	2222	??			
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E>	2457	22222	2222	2222	. 2 2 2 2	2222		2222	22.52	2223	2222	2222	5.5			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001 TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

E>	2459	???????????????????????????????????????
E>	2461	???????????????????????????????????????
E>	2463	???????????????????????????????????????
E>	2465	??????????4???????5?5????5???5???5??+?+++++
E>	2467	+?++++++++++++++++++++?????????????????
E>	2469	+++++++?%+++++++?`+++++++?????4???0???5?????????????
_		?5????+++++++++++++++++++++++++++++++?????
		??????????++++++++**
		75?0????????????++++++++++++++++++++++++
		????????????????????++++++++?%+++++++?`+++++++??
-		???5???5??????????????????
		+++++??????????????????????????????
		++++?`++++++++????????5?5??????????????
		+??+++++++??+++++++????????????????????
		??++++++?%++++++; `+++++++????????????????????????
E>	2489	???????+++++++?`++++++?%+++++++??????5??????????
E>	2491	??????????5??+++++++??++++++??+++++++??????
E>	2493	??????????????????+++++++?`+++++++
E>	2495	????????????5??+++++++??+++++++????????
E>	2497	???????????????????????????????????????
E>	2499	???????????????????????????????????????
E>	2501	???????????????????4???????????????????
E>	2503	???????????????????????????????????????
E>	2505	???????????????????????????????????????
E>	2507	???????????????????????????????????????
E>	2509	????4??????????????????????????????????
_		74?????????????????????????????????????
		777777777747777777777777777777777777777
_		?????????????????????4????????4????????
_		?????????????????????????????????????
_ :		777777777777777777777777777777777777777
_		777777777777777777777777777777777777777
		??????????????????4????????????????????
		???????????????????????????????????????
		777777777747777777777747777777747777777
		777777777777777777777777777777777777777
		777477777777777747777777777777777777777
		???????????????4???????????????????????
E>		???????????????????????????????????????
		??????????????????????????????????????
E>	2539	???????????????????????????????????????
E>	2541	????????????????????????4????????????
E>	2543	???????????????????????????????????????
E>	2545	4???????????????????????4??????????????
E>	2547	???????????????????????????????????????
E>	2549	????????4??????????????????????????????
E>	2551	???????????????????????????????????????
E>	2553	??????4????????????????????????????????
E>	2555	???????????????????????????????????????

Input Set : N:\EBONY'S\ES.txt

```
E--> 2581 ??????????????????????+++++++?%+++++++?\+++++++
E--> 2595 ??????????????+++++++?%+++++++?`++++++???
E--> 2597
     Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser Leu Lys Leu Leu Phe
  2599
              155
                         160
                                    165
  2603
     Leu Ser Lys Asn His Leu Ser Ser Val Pro Val Gly Leu Pro Val
  2605
              170
                         175
  2609
     Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile Ala Val Ile
  2611
              185
                         190
  2615
     Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg Leu Ile
  2617
                         205
  2621
     Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly Thr
  2623
              215
                         220
  2627
     Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
  2629
              230
                         235
  2633
     Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile
  2635
              245
                         250
  2639
     Arg Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr
  2641
              260
                         265
  2645
     Ala Phe Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn
  2647
              275
                         280
  2651
     Asn Gln Leu Arg Met Leu Thr Gln Gly Val Phe Asp Asn Leu Ser
  2653
              290
                         295
  2657
     Asn Leu Lys Gln Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys Asp
  2659
              305
  2663
     Cys Ser Ile Lys Trp Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser
  2665
              320
                         325
  2669
     Ser Leu Asn Val Arg Gly Phe Met Cys Gln Gly Pro Glu Gln Val
  2671
              335
                         340
  2675
     Arg Gly Met Ala Val Arg Glu Leu Asn Met Asn Leu Leu Ser Cys
  2677
              350
                         355
  2681
     Pro Thr Thr Pro Gly Leu Pro Leu Phe Thr Pro Ala Pro Ser
```

Input Set : N:\EBONY'S\ES.txt

	2683					365					370					375
	2687	Thr	Ala	Ser	Pro	Thr	Thr	Gln	Pro	Pro	Thr	Leu	Ser	Ile	Pro	Asn
	2689					380					385					390
	2693	Pro	Ser	Arg	Ser	Tyr	Thr	Pro	Pro	Thr	Pro	Thr	Thr	Ser	Lys	Leu
	2695			_		395					400				<del>-</del>	405
	2699	Pro	Thr	Tle	Pro	Asp	Trp	Asp	Glv	Ara	Glu	Ara	Va 1	Thr	Pro	Pro
	2701	110		220		410		P	01	9	415	9	,			420
•	2705	т1.	Cor	Clu	7 20		Gln	LOU	Cor	т10		Dho	1/21	Aan	7 an	
		116	ser	GIU	AIG		GIII	Leu	ser	iie		Pne	Val	ASII	ASP	
	2707					425		_	_	_	430					435
	2711	Ser	He	GIn	Val		Trp	Leu	Ser	Leu		Thr	Val	Met	Ala	_
	2713					440					445					450
	2717	Lys	Leu	Thr	Trp	Val	Lys	Met	Gly	His	Ser	Leu	Val	Gly	Gly	Ile
	2719					455					460					465
E>	2723	++++	++++	??++	++++	+??-	++++	++++	?????	?????	?????	2222	????	?????	??	
E>	2725	22222	???+	++++	+++?	6+++-	++++	+? \++	++++	+++?	??0?	52225	5757	2223	20	
E>	2727	5????	????	?????	+++	+++-	+??+	++++	++??	2+++	++++	+3333	????	????	??	
E>	2729	22222	2222	22222	2222	????-	++++	+++3	28+++	++++	++2 1+	++++	++++	2222	20	
		33333							-							
		22222												+++		
		3,++4												. т.		
_ :																
ピーーノ		?++++														
		?++++		_		-										
E>		03333													-	
	2743	33333	3333	55553	>?+++	+++-	++?&+	-+++	++++?	> `+++	-+++	++???	???5	55553	?5	
E>	2745	55555	23333	55555	50333	.555	++++	+++7	??++1	++++	+??+	++++	+++;	55555	5.5	
E>	2747	33333	2333	22332	22333	5555	23333	???+4	++++	+++?	6+++	++++	+? '+•	++++	++	
E>	2749	+????	??5??	2222	2777	?4??	2222	????	52223	++++	++++	-??+	+++	+++?		
E>	2751	?+++4	++++	+2222	2222	????	2222	2333	2222	2222	2222	?+++	+++	++?		
E>	2753	%+++1	++++	F2 1+4	++++	++??	2222	2555	2222	??5??	?5??	????	????	???+		
E>	2755	++++1	++27	2+++4	++++	-22+	++++	++22	2222	2222	2222	2222	2222	2222	??	
		33333													-	
		22222	-				_								-	
		22222					-				-					
_		5????						_	-		-				-	•
_															rr	
		33333										_		TT 8		
		`+++1					77774	1777	77775	2222	, , , , , ,	*+++	+++-	F77+		
		++++1														
		+?++1				=										
		55555														
E>	2775	25???	,5555	55554	++++	++++	+2++1	++++	+++?+	++++	++++	-3333	5555	55555	5.5.5	
	2777	33333	????	33333	,5,5,5	?+++	++++	-+?&+	-+++	+++;	, , +++	-+++	+???	33333	25	
E>	2779	22333	?????	, , , , , ,	2222	???57	25224	++++	++++	+++5+	++++	++?+	++++	++++	133	
E>	2781	33333	????	?????	2222	2222	?????	????	?+++	++++	+?%+	++++	++++	++'		
E>	2783	++++	+???	2222	??5?	??47	?????	?????	2222	?????	?+++	-+++	+++?+	++++	<b>+</b>	
E>	2785	+++??	++++	++++	-222	2222	2777	7777	7777	2222	????	2222	?+++	++++		
		++?%+														
		??+++		-											2	
		22222		/												
正ーーク	2193	5????	****	****	****	*****	TT ( )	*****	*****	****	- + + + 1	TTC	****	****		

Input Set : N:\EBONY'S\ES.txt

```
E--> 2851 ?????????????++++++++; '++++++?%+++++++????????5???o
E--> 2855 ????????????????????????+++++++?`++++++
2867 ????????????+++++++++**++++++**
```

DATE: 12/19/2001

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001 TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

```
E--> 2997 ????????????????????????*+++++++?`++++++?%+++++++
E--> 3003 \++++++++?%+++++++????????4??????5?5???4???5?5????+
E--> 3011 ??????????????????++++++++* `++++++*%+++++++???????
E--> 3017 %++++++++???????????????5??????????4????+++++++??+
E--> 3021 ++++++? \+++++++?%+++++++????
E--> 3023
       Val Gln Glu Arg Ile Val Ser Gly Glu Lys Gln His Leu Ser Leu
                                475
   3025
                  470
   3029
       Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg Ile Cys Leu Val Pro
   3031
                  485
                                490
   3035 Leu Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp Thr Ile Cys Ser
   3037
                  500
                                505
       Glu Ala Thr Thr His Ala Ser Tyr Leu Asn Asn Gly Ser Asn Thr
   3041
                                520
   3043
                  515
       Ala Ser Ser His Glu Gln Thr Thr Ser His Ser Met Gly Ser Pro
   3047
                                535
   3049
       Phe Leu Leu Ala Gly Leu Ile Gly Gly Ala Val Ile Phe Val Leu
   3053
                                550
   3055
                  545
       Val Val Leu Leu Ser Val Phe Cys Trp His Met His Lys Lys Gly
   3059
                                565
   3061
                  560
       Arg Tyr Thr Ser Gln Lys Trp Lys Tyr Asn Arg Gly Arg Arg Lys
   3065
                                580
                  575
   3067
   3071
       Asp Asp Tyr Cys Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu
                                595
   3073
                  590
       Glu Met Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp
   3077
                                610
   3079
                  605
       Gln Leu Leu Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro
   3083
                  620
                                625
   3085
       Asn Gly Gly Ile Asn Tyr Thr Asp Cys His Ile Pro Asn Asn Met
   3089
   3091
                  635
                                640
       Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu His Cys His Thr
   3095
€}6> 3097
                                655
                  650
   3473 <210> SEQ ID NO: 34
   3475 <211> LENGTH: 915
   3477 <212> TYPE: PRT
   3479 <213> ORGANISM: Homo Sapien
   3483 <400> SEQUENCE: 34
   3485 Met Glu Lys Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln
   3487
```

Input Set : N:\EBONY'S\ES.txt

	3491	Ile	Val	Leu	Leu	Pro	Ala	Glu	Ala	Arg	Glu	Arg	Ser	Arg	Gly	Arg
	3493					20					25					30
	3497	Ser	Ile	Ser	Arg	-	Arg	His	Ala	Arg		His	Pro	Gln	Thr	Ala
	3499				_	35	_	_ •			40					45
	3503	Leu	Leu	Glu	Ser		Cys	Glu	Asn	Lys	-	Ala	Asp	Leu	Val	
	3505	<b>-</b> 1-	<b>73</b> -	3	<b>a</b>	50		<b>a</b>	77- 7		55	77.5 -		<b></b>		60
	3509	rre	ire	Asp	ser		Arg	Ser	vaı	Asn		HIS	Asp	туr	Ala	
	3511 3515	Wa 1	T ***	C1	Dho	65	175.7	Asp	т1.	T 011	70	Dho	Т он	A an	T10	75
	3517	Val	гàг	GIU	Pne	80	val	ASP	тте	Leu	85	Pne	Leu	ASP	TTE	90
	3521	Pro	λen	Va 1	Thr		17 a 1	Gly	Lau	Lan		Тиг	Clv	Cor	Thr	
	3523	FIO	тэр	Val	1111	95	Val	СТУ	пец	пец	100	тут	СТУ	261	T 111 T	105
E>	3527	++++	++++	22++4	++++		++++	+++;	2222	2222		2222	2222	2222	) ?	103
_	3529															
	3531				-										-	
	3533															
E>		33333													L	
E>	3537							-				12 1 T I			•	
E>		2%+++										) J T T I		LTT		
	3541												2222	222		
_	3543	-													.2	
	3545	-		-		-	-								-	
	3547															
	3549									_					•	
	3551								•				•	++++	· -+	
_ :	3553							_		_				+++2	•	
E>		2++++												_		
	3557	-						27777						•		
E>		22222					2777	2777	2777	2777	2222	2777	7			
E>	3561	22222	2222	22222	2777	2777	2777	2222	2777	2777	2777	2777	22			
E>	3563	22223	2777	?????	2777	????	2777	2777	2777	2777	2777	2777	2.5			
E>	3565	35555	2777	?????	2777	????	2555	?????	????	????	??47	????	?			
E>	3567	22222	????	?????	????	????	?????	?????	????	????	????	????	??			
E>	3569	?????	2222	22222	?????	2223	2222	2222	2222	4???	2222	?????	.5			
E>	3571	22222	2777	?????	????	????	????	?????	?????	????	2222	????	3			
E>	3573	33333	2777	????4	3333	2222	2555	2222	2555	2555	.5555	2555	.5			
E>	3575	33333	2333	23333	, 2, 2, 2, 3	3333	,5555	2222	,5,5,5,5	5555	4???	2223	.5			
E>	3577	33333	, , , , , ,	?????	???4?	.5555	2555	?????	7777	,5555	???4	13333	.5			
E>	3579	33333	3555	2222	,5555	?4??	2555	2222	2555	2222	5555	???4?	.3			
E>	3581	33333	, , , , , ,	22223	2555	.5555	2555	7777	,5555	, , , , , ,	3333	,5555	.5			
E>	3583	33333	, 5, 5, 5, 5	55555	,5555	. 5 5 5 5	,5555	,3333	, , , , , ,	5555	5555	,5555	.5			
E>	3585	35555	.3333	???4?	, 5, 5, 5, 5	5555	3333	,3553	,3,5,5,5	. 5 5 5 5	5555	,3333	.5			
E>	3587	24223	,3333	33333	5555	.5555	3333	,3,3,3	5555	. 5 5 5 5	5555	.5555	3			
E>	3589	35553	. 5 5 5 5	55555	3333	5555	.5555	, 3, 5, 5, 5	5555	. 5 5 5 5	5555	, 3, 5, 5, 5,	3			
E>	3591	55555	. 5 5 5 5	33333	. 5 5 5 5	5555	.5555	,5555	. 5 5 5 5	5555	.5553	. 5 5 5 5	.5			
_	3593												-			
	3595												-			
_	3597												-			
E>	3599	33333	3333	. 5 5 5 5	. 5 5 5 5	5555	5555	,3333	.5555	3333	2422	. 5 5 5 5	3			

**RAW SEQUENCE LISTING**PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

```
E--> 3667 ?????????????????????+++++++?`++++++?%+++++++
E--> 3677 ??+++++++?`++++++?%++++++????
E--> 3679
  Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys Arg Lys Ser Glu Val
3681
     110
         115
            120
3685
  Glu Arg Ala Val Lys Arg Met Arg His Leu Ser Thr Gly Thr Met
3687
     125
            135
3691
  Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala Phe Ser Glu
3693
     140
         145
            150
3697
  Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg Val Ile
3699
     155
         160
3703
  Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu Val
3705
     170
         175
            180
```

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

3709 3711	Ala	Ala	Lys	Ala	Arg 185	Asp	Thr	Gly	Ile	Leu 190	Ile	Phe	Ala	Ile	Gly 195
3715	Val	Gly	Gln	Val		Phe	Asn	Thr	Leu		Ser	Ile	Gly	Ser	
3717		_			200					205					210
3721	Pro	His	Glu	Asp		Val	Phe	Leu	Val		Asn	Phe	Ser	Gln	
3723 3727	C1.,	mh m	T 0	шь»	215	17a l	Dha	<b>61</b> =	T	220	T 011	O	mb	7 1 A	225
3729	GIU	Thr	Leu	Thr	230	vaı	Pne	GIN	Lys	Lys 235	Leu	Cys	Thr	Ата	240
3733	Met	Cys	Ser	Thr		Glu	His	Asn	Cys		His	Phe	Cys	Ile	-
3735		_			245				-	250			•		255
3739	,Ile	Pro	Gly	Ser	-	Val	Cys	Arg	Cys	_	Gln	Gly	Tyr	Ile	
3741	_		_		260	_,	_	_		265	_	_	_		270
3745 3747	Asn	Ser	Asp	GIn	Thr 275	Thr	Cys	Arg	Ile	GIn 280	Asp	Leu	Cys	Ala	Met 285
3751	Glu	Asp	His	Asn		Glu	Gln	Leu	Cys		Asn	Val	Pro	Glv	
3753	o L u				290	Olu	0111		010	295		, 41	110	011	300
3757	Phe	Val	Cys	Gln	Cys	Tyr	Ser	Gly	Tyr	Ala	Leu	Ala	Glu	Asp	Gly
3759					305					310					315
3763	Lys	Arg	Cys	Val		Val	Asp	Tyr	Cys		Ser	Glu	Asn	His	-
3765 3769	Cvc	Glu	Uic	Glu	320 Cvs	17 a 1	λen	λla	Asp	325	Sor	тиг	LOU	Cvc	330
3771	СУЗ	Giu	штэ	Giu	335	Vai	ASII	AIG	АЗР	340	Ser	ıyı	ьеu	Cys	345
3775	Cys	His	Glu	Gly	Phe	Ala	Leu	Asn	Pro	Asp	Glu	Lys	Thr	Cys	
3777					350					355					360
3781	Arg	Ile	Asn	Tyr	_	Ala	Leu	Asn	Lys		Gly	Cys	Glu	His	
3783	G	37.0.1	7	16-A	365	G1		m	m	370	3	<b></b>	TT 2	3	375
3787 3789	Cys	vaı	ASII	мес	380	GIU	ser	TYL	Tyr	385	AIG	Cys	HIS	Arg	390
3793	Tyr	Thr	Leu	Asp		Asn	Gly	Lys	Thr		Ser	Arq	Val	Asp	
3795	-			~	395		-	-		400				-	405
3799	Cys	Ala	Gln	Gln	_	His	Gly	Cys	Glu		Leu	Cys	Leu	Asn	
3801					410					415					420
	<b>**++</b> ++														
	?????														
3811	??5??	?5?7	2333	2222	??++	+++4	++??	++++	+++	-22+4	+++4	++??	5555	?	
3813	33333	,555	5555	55555	. 5 5 5 5	5555	?++4	++++	+?%+	++++	+++?	, , +++	++++	+	
	33333														
	?+++4 %+++4				•						•				
	++++1		•										• • •	?	
	33333													-	
3825	33333	3333	,5554	++++	+++?	?+++	++++	+55+	++++	+++?	2223	. 5 5 5 5	, , , , , ,	?	
	55555				• • •					•				•	
	03333													.3	
	1++++										_		•		
	+++++														
3837	++++	+?%+	-+++	+++?	1+++	++++	+???	??5?	??5?	2223	2223	0777	2223	ı	

E--> E-->

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001
TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

E>	3839	5222	2+++	++++	+22+	++++	+++?	2+++	++++	+222	2222	2222	2222	2222	2.2	
	3841		-				-	-	_						-	
	3843								-						-	
	3845										•					
	3847														•	
	3849															
_	3851															
E>							Cvs	Gln	Cvs	Ser	Glu	Gly	Phe	Leu	Ile	Asn
_	3855					425			•		430	•				435
	3859	Glu	Asp	Leu	Lys	Thr	Cys	Ser	Arq	Val	Asp	Tyr	Cys	Leu	Leu	Ser
	3861		-		•	440	-		,		445	•	•			450
	3865	Asp	His	Gly	Cys	Glu	Tyr	Ser	Cys	Val	Asn	Met	Asp	Arg	Ser	Phe
	3867	-		•	-	455	•		-		460		-	_		465
	3871	Ala	Cys	Gln	Cys	Pro	Glu	Gly	His	Val	Leu	Arg	Ser	Asp	Gly	Lys
	3873		_		_	470		_			475	_		_	-	480
	3877	Thr	Cys	Ala	Lys	Leu	Asp	Ser	Cys	Ala	Leu	Gly	Asp	His	Gly	Cys
	3879					485					490					495
	3883	Glu	His	Ser	Cys	Val	Ser	Ser	Glu	Asp	Ser	Phe	Val	Cys	Gln	Cys
	3885					500					505					510
	3889	Phe	Glu	Gly	Tyr	Ile	Leu	Arg	Glu	Asp	Gly	Lys	Thr	Cys	Arg	Arg
	3891					515					520					525
	3895	Lys	Asp	Val	Cys		Ala	Ile	Asp	His	Gly	$\mathtt{Cys}$	Glu	His	Ile	Cys
	3897					530					535					540
	3901	Val	Asn	Ser	Asp	-	Ser	Tyr	Thr	Cys		Cys	Leu	Glu	Gly	Phe
	3903					545					550					555
	3907	Arg	Leu	Ala	Glu	_	Gly	Lys	Arg	Cys	_	Arg	Lys	Asp	Val	_
	3909	_	_	•	•	560		_		•	565	_		_	_	570
	3913	Lys	Ser	Thr	His		GIY	Cys	GLu	Hls		Cys	Val	Asn	Asn	
	3915		<b>a</b>	·	<b>-1</b> -	575	T	<b>a</b>	<b>a</b>	<b>a</b> 1	580	D1-	77- 7	<b>.</b>	21-	585
	3919 3921	ASI	ser	туг	тте	590	ьуs	Cys	ser	GIU	595	Pne	vaı	Leu	Ala	600
	3925	λαη	C117	λνα	λνα		Luc	Luc	Cve	Thr		C1 v	Dro	Ile	λen	
	3927	кър	Gry	ALY	AIG	605	шуз	шуз	Cys	1111	610	GLY	FIU	116	тэр	615
	3931	Val	Phe	Va l	Tle		Glv	Ser	Lvs	Ser		Glv	Glu	Glu	Asn	
	3933	, c				620		002	_10	001	625	011	0_4	0_0	11011	630
	3937	Glu	Val	Val	Lvs		Phe	Val	Thr	Glv		Ile	Asp	Ser	Leu	
	3939					635					640					645
	3943	Ile	Ser	Pro	Lys	Ala	Ala	Arq	Val	Gly	Leu	Leu	Gln	Tyr	Ser	
	3945				-	650		_		_	655			-		660
	3949	Gln	Val	His	Thr	Glu	Phe	Thr	Leu	Arg	Asn	Phe	Asn	Ser	Ala	Lys
	3951					665				_	670					675
	3955	Asp	Met	Lys	Lys	Ala	Val	Ala	His	Met	Lys	Tyr	Met	Gly	Lys	Gly
	3957					680					685					690
	3961	Ser	Met	Thr	Gly	Leu	Ala	Leu	Lys	His	Met	Phe	Glu	Arg	Ser	Phe
	3963					695					700					705
	3967	Thr	Gln	Gly	Glu	_	Ala	Arg	${\tt Pro}$	Leu		Thr	Arg	Val	${\tt Pro}$	Arg
	3969					710					715					720
	3973	Ala	Ala	Ile	Val		Thr	Asp	Gly	Arg		Gln	Asp	Asp	Val	
	3975					725					730					735

Input Set : N:\EBONY'S\ES.txt

```
E--> 3985 5????????????????++++++++??+++++??+++++???
E--> 3987 ??????????????????????+++++++*?`++++++?%+++++++
E--> 4005 ???????????????????????????++++++++; \+++++++
E--> 4015 ??????????++++++++?`++++++?%+++++++??o?4????????
E--> 4025 ++++++?%+++++++????
E--> 4027
     Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile Thr Met Tyr Ala
  4029
             740
                       745
  4033
     Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln Glu Ile Ala
  4035
             755
  4039
     Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp Phe Ser
  4041
             770
                       775
                                  780
  4045
     Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys Glu
  4047
                       790
             785
     Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu
  4051
  4053
             800
                       805
  4057
     Leu Pro Lys Thr Val Gln Gln Pro Thr Glu Ser Glu Pro Val Thr
  4059
             815
                       820
     Ile Asn Ile Gln Asp Leu Leu Ser Cys Ser Asn Phe Ala Val Gln
  4063
  4065
             830
                       835
  4069
     His Arg Tyr Leu Phe Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln
  4071
             845
                       850
  4075
     Lys Leu Ser His Ser Thr Lys Pro Ser Gly Ser Pro Leu Glu Glu
  4077
                       865
  4081
     Lys His Asp Gln Cys Lys Cys Glu Asn Leu Ile Met Phe Gln Asn
  4083
                       880
             875
  4087
     Leu Ala Asn Glu Glu Val Arg Lys Leu Thr Gln Arg Leu Glu Glu
  4089
             890
                       895
  4093
     Met Thr Gln Arg Met Glu Ala Leu Glu Asn Arg Leu Arg Tyr Arg
E--> 4095
             905
                       910
                                  915
  4323 <210> SEQ ID NO: 39
```

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/09/665,350A**DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

```
4325 <211> LENGTH: 390
  4327 <212> TYPE: PRT
  4329 <213> ORGANISM: Homo Sapien
  4333 <400> SEQUENCE: 39
     Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe
  4337
  4341
     Leu Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln
  4343
             20
  4347
    Leu Gln Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly
  4349
             35
  4353 Gly Glu Val Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val
  4355
  4359
     Ser Ser Ser Gln Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe
  4361
  4365 Lys Gln Lys Glu Lys Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly
  4367
             80
                      85
  4371 Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val Tyr Ser Met Pro
  4373
             95
                      100
  4377
     Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln Glu Lys Asp
  4379
            110
                      115
  4383
     Ser Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asp Lys Gln Gly
  4385
            125
                      130
  4389 Lys Ser Arg Gly His Ser Ile Lys Thr Leu Glu Leu Asn Val Leu
  4391
            140
                      145
  4395
     Val Pro Pro Ala Pro Pro Ser Cys Arg Leu Gln Gly Val Pro His
  4397
            155
                      160
  4401
    Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser Pro Arg Ser Lys
  4403
            170
                      175
E--> 4419 %++++++++?`++++++??????????5??5??5?0???5?5???????+
sane
sel p20
```

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/09/665,350A**DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

```
same
E--> 4503 ?????????????+++++++++++++++*, \++++++++++++
E--> 4517 ??????+++++++?%+++++++?'++++++???
E--> 4519 Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro Ser Phe Gln
 4521
      185
           190
 4525
  Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser Leu Ser
 4527
      200
           205
               210
 4531 Leu Thr Asn Leu Ser Ser Met Ala Gly Val Tyr Val Cys Lys
 4533
 4537
  Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
 4539
      230
           235
 4543
  Val Ser Thr Gly Pro Gly Ala Ala Val Ala Gly Ala Val Val
 4545
      245
           250
 4549
  Gly Thr Leu Val Gly Leu Gly Leu Ala Gly Leu Val Leu Leu
 4551
      260
           265
 4555
  Tyr His Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile
```





Input Set : N:\EBONY'S\ES.txt

				0	utpu	t Se	C: N	:\CR	F3/1	2192	001/	1665	350A	.raw		
	4557					275					280					285
	4561	Lvs	G1u	Asp	Ala		Ala	Pro	Ara	Thr		Pro	Trp	Pro	Lvs	
	4563	-1 -		1		290					295				_10	300
	4567	Ser	Asp	Thr	Ile		Lvs	Asn	Glv	Thr		Ser	Ser	Val	Thr	
	4569		-			305	_		-		310					315
	4573	Ala	Arg	Ala	Leu	Arg	Pro	Pro	His	Gly	Pro	Pro	Arq	Pro	Gly	Ala
	4575		_			320				•	325		,		_	330
	4579	Leu	Thr	Pro	Thr	Pro	Ser	Leu	Ser	Ser	Gln	Ala	Leu	Pro	Ser	Pro
	4581					335					340					345
	4585	Arg	Leu	Pro	Thr	Thr	Asp	Gly	Ala	His	Pro	Gln	Pro	Ile	Ser	Pro
	4587					350					355					360
	4591	Ile	Pro	Gly	Gly	Val	Ser	Ser	Ser	Gly	Leu	Ser	Arg	Met	Gly	Ala
	4593					365					370					375
	4597	Val	Pro	Val	Met	Val	Pro	Ala	Gln	Ser	Gln	Ala	Gly	Ser	Leu	Val
•	4599					380					385					390
	5017											_				
	5019	<2112	> LE	NGTH	: 69	0				_	25					
	5021	<212	> TY	PE:	PRT		_			72	123					
	5019 5021 5023 5027 5029	<213	> ORG	JANI	SM: I	HOMO	Sap:	ıen	M	<i></i> -						
	5027	<b>Mot</b>	> SE(	ν~α Συπυί	JE: 4	49 Dro	T ou	T 011	1707	Wa 1	Dho	Com	шhт	т ол	т о	7
	5031	1	пÃг	ALG	ьеu	5	ьеu	ьец	vai	val	10	ser	1 111	Leu	ьец	15
	5035	_	Sor	Тулг	Thr	-	λen	Cvc	Thr	Luc		Dro	Cve	Leu	Dro	
	5033	Cys	Der	1 7 1	1111	20	ASII	Cys	1111	цуз	25	FIU	Cys	Leu	PIO	30
	5041	Ala	Lvs	Cvs	Glu		Ara	Asn	Glv	Tle		Ala	Cvs	Tyr	Cvs	
	5043			0,0	014	35	9	11011	011	110	40		0,0	+1+	Cys	45
	5047	Met	Gly	Phe	Ser	Gly	Asn	Gly	Val	Thr	Ile	Cys	Glu	Asp	Asp	
	5049		_			50					55	_				60
	5053	Glu	Cys	Gly	Asn	Leu	Thr	Gln	Ser	Cys	Gly	Glu	Asn	Ala	Asn	Cys
	5055					65					70					75
	5059	Thr	Asn	Thr	Glu	Gly	Ser	Tyr	Tyr	Cys	Met	Cys	Val	Pro	Gly	Phe
	5061					80					85					90
	5065	Arg	Ser	Ser	Ser		Gln	Asp	Arg	Phe	Ile	Thr	Asn	Asp	Gly	Thr
	5067			_		95					100					105
	5071	Val	Cys	Ile	Glu		Val	Asn	Ala	Asn		His	Leu	Asp	Asn	
	5073	_				110	~ 1	_	_	1	115	_,	_		_	120
	5077	Cys	тте	Ата	Ата		TTE	Asn	Lys	Thr		Thr	Lys	Ile	Arg	
	5079	71.	T	<b>61</b>	D==0	125	7 1 a	T	T	<b>01</b> -	130	17_ 7		3	<b>3</b>	135
	5083	116	ьуѕ	GIU	PIO		Ата	Leu	ьeu	GIN		Val	Tyr	Arg	ASN	
	5085 5089	375.1	Πh.×	7 an	Ton	140	Dro	шhъ	7 an	т1 о	145	mh w	П	т1.	C1	150
	5091	ναι	TIIL	vah	neu	155	FIO	TIII	нар	тте	160	T IIT.	тАт	Ile	GIU	11e
	5095	T.e.ii	Δla	Glu	Ser		Ser	T.e.i	Leu	G1 17		T.37.0	Δen	Asn	Thr	
	5097	ىات	u	JIU	JUL	170	JUL	LGU	шeu	OTA	175	пуэ	വാഥ	LO11	T 11T	180
	5101	Ser	Ala	Lvs	Asp		Leu	Ser	Asn	Ser		Len	Thr	Glu	Phe	
	5103			-1-	F	185				~~-	190			U-u		195
	5107	Lys	Thr	Val	Asn		Phe	Val	Gln	Arq		Thr	Phe	Val	Val	
	5109	4				200				٠.	205					210
	5113	Asp	Lys	Leu	Ser	Val	Asn	His	Arg	Arg	Thr	His	Leu	Thr	Lys	
		_							-	-					-	



Input Set : N:\EBONY'S\ES.txt

	5115					215					220					225
	5119	Met	His	Thr	Val	Glu	Gln	Ala	Thr	Leu	Arg	Ile	Ser	Gln	Ser	Phe
	5121					230					235					240
	5125	Gln	Lys	Thr	Thr	Glu	Phe	Asp	Thr	Asn	Ser	Thr	Asp	Ile	Ala	Leu
	5127		-			245		-			250		-			255
	5131	Lys	Val	Phe	Phe	Phe	Asp	Ser	Tyr	Asn	Met	Lys	His	Ile	His	Pro
	5133	•				260	-		-		265	•				270
	5137	His	Met	Asn	Met	Asp	Glv	Asp	Tvr	Ile	Asn	Ile	Phe	Pro	Lvs	
	5139			-		275	2		4		280				-1-	285
	5143	Lvs	Ala	Ala	Tyr	Asp	Ser	Asn	Glv	Asn		Ala	Val	Ala	Phe	
	5145				-1-	290			1		295					300
E>	5149	++++	++++7	??++-	++++		+++4	+++;	2222	2222		2222	2222	2222	9	
		?????	-												-	
E>	5153				•			•								
	5155				-										•	
	5157								-		-				•	
_	5159												-		•	
_	5161															
_	5163											-		-		
	5165															
_	5167					-									-	
	5169														•	
_	5171				-										•	
	5173														•	
	5175										_		-		· T	
_	5177													-		
	5179											-		-		
_		-		-												
	5181															
	5183															
	5185												•			
	5187												*			
	5189															
	5191															
_	5193 5195															
	5195															
	5197															
													-			
	5201															
	5203															
	5205															
	5207												-			
	5209												-			
	5211												-			
	5213						•						•			
巴>	5215												•			
<b>-</b>		?????											-			
	5219												-			
	5221												-			
E>	5223	77777	3333	. 5555	7477	7777	7777	2223	3333	3333	3333	3333	3			



Input Set : N:\EBONY'S\ES.txt

E>	5225	??????4????????????????????????????????
E>	5227	???????????????????????????????????????
	5229	????????4????????????????????????????
E>	5231	?????????????????????????4?????????????
E>	5233	??????????????????????4????????????????
		???????????????????????????????????????
		??????????????4????????4???????????????
		?4?????????4????????????????4??????????
		???????????????????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		????????????????????4??????????????????
		???????????????????????????????????????
		???????????????????????????4???????????
_		???????????????????????????????????????
		???????????????????????????????????????
_		???????????????????????????4???????????
		???????????????????????????????????????
E>		??????????4????????????????????????????
		???????????????????????????????????????
E>	5265	?????????4??????????????????????????
E>	5267	???????????4????????4??????????????????
E>	5269	???????????????????????????????????????
E>	5271	???????????????????????????????????????
E>	5273	?????????????????????4?????????????????
E>	5275	????????4?????????4????????????????????
E>	5277	???????????????????????????????????????
E>	5279	???????????????????????????????????????
E>	5281	?5???5?5?????????5?5??+?+++++++++++++++
E>	5283	?????????????????????????+++++++;%+++++++
E>	5285	+++++????????5??????????5????????
E>	5287	++++?+++++++++?????????????????????????
E>	5289	+?%+++++++?`++++++???5??????5???????????
E>	5291	?++++++?+++++++++++++++++++++++++++++++
E>	5293	???????+++++++?%+++++++?`+++++++????????
E>	5295	???????o????+++++++++++++++++++++++++++
E>	5297	?????????????????++++++++;%++++++; `+++++++????????
E>	5299	????????????5?????????+++++++;?++++++??++++++
E>	5301	???????????????????????????
E>	5303	<b>\</b> +++++++?????????5?????????????????????
E>	5305	++++++??+++++++????????????????????????
E>	5307	+++++?%+++++++?`+++++++?????????????5??????????
E>	5309	5????+++++++??++++++??++++++???????????
E>	5311	??????????++++++++?%+++++++?`++++++???o???5??????
		?????????5?????+++++++??++++++??++++++??????
		?????????????????????+++++++?%++++++++
		?????????5???0???????????+++++++??++++++??+
		++++++7????????????????????????????
		++++++?`+++++++?????4???4?0???0??????????
	J J & I	





Input Set : N:\EBONY'S\ES.txt

E>	5323	+++??	2+++	++++	+22+-	++++	+++?	2222	2222	2222	2222	2222	2222	?????	>	
		???+-					_									
E>	<b>5327</b> 5329	Tyr	Tyr	Lys	Ser	<b>Ile</b> 305	Gly	Pro	Leu	Leu	<b>Ser</b> 310	Ser	Ser	Asp	Asn	<b>Phe</b> 315
	5333 5335	Leu	Leu	Lys	Pro		Asn	Tyr	Asp	Asn		Glu	Glu	Glu	Glu	Arg 330
	5333 5339 5341	Val	Ile	Ser	Ser		Ile	Ser	Val	Ser		Ser	Ser	Asn	Pro	
	5345	Thr	Leu	Tyr	Glu	Leu	Glu	Lys	Ile	Thr	Phe	Thr	Leu	Ser	His	Arg
	5347 5351	Lys	Val	Thr	Asp	_	Tyr	Arg	Ser	Leu		Ala	Phe	Trp	Asn	
	5353	_	_	_	_,	365	_	<b>a</b> 1	<b>~</b>	m	370	<b>G</b>	a1	<b>01</b>	<b>0</b>	375
	5357 5359			_		380	Asn				385					390
	5363 5365	Leu	Thr	Tyr	Ser	Asn 395	Glu	Thr	His	Thr	Ser 400	Cys	Arg	Cys	Asn	His 405
	5369 5371	Leu	Thr	His	Phe	Ala 410	Ile	Leu	Met	Ser	Ser 415	Gly	Pro	Ser	Ile	Gly 420
	5375 5377	Ile	Lys	Asp	Tyr	Asn 425	Ile	Leu	Thr	Arg	Ile 430	Thr	Gln	Leu	Gly	Ile 435
	5381 5383	Ile	Ile	Ser	Leu	Ile 440	Cys	Leu	Ala	Ile	Cys 445	Ile	Phe	Thr	Phe	Trp 450
	5387 5389	Phe	Phe	Ser	Glu		Gln	Ser	Thr	Arg		Thr	Ile	His	Lys	
	5393 5395	Leu	Cys	Cys	Ser		Phe	Leu	Ala	Glu		Val	Phe	Leu	Val	
	5399 5401	Ile	Asn	Thr	Asn		Asn	Lys	Leu	Phe		Ser	Ile	Ile	Ala	
	5405	Leu	Leu	His	Tyr	Phe	Phe	Leu	Ala	Ala	Phe	Ala	Trp	Met	Cys	Ile
	5407 5411	Glu	G1v	Tle	ніс	500	Tyr	T.e.11	Tle	Val	505 Val	Glv	Val	Tle	Tvr	510 Asn
	5413	014	0-1			515	-1-				520	1			-1-	525
	5417 5419	Lys	Gly	Phe	Leu	His 530	Lys	Asn	Phe	Tyr	11e 535	Phe.	Gly.	Tyr	Leu	Ser 540
	5423 5425	Pro	Ala	Val	Val	Val 545	Gly	Phe	Ser	Ala	Ala 550	Leu	Gly	Tyr	Arg	Tyr 555
	5429 5431	Tyr	Gly	Thr	Thr	Lys 560	Val	Cys	Trp	Leu	Ser 565	Thr	Glu	Asn	Asn	Phe 570
	5435 5437	Ile	Trp	Ser	Phe	Ile 575	Gly	Pro	Ala	Cys	Leu 580	Ile	Ile	Leu	Val	Asn 585
	5441 5443	Leu	Leu	Ala	Phe		Val	Ile	lle	Tyr		Val	Phe	Arg	His	
	5447	Ala	Gly	Leu	Lys		Glu	Val	Ser	Cys		Glu	Asn	Ile	Arg	
	5449 5453	++++	++++7	·++-	<b>-</b> +++		++++	++++	22251	25223		2222	20223	22251	· •5	913
E>		25252														
		?????														
		5????														
E>	5461	22222	2222	2333	????1	?????	\$3551	??+++	++++	++?'+	++++	+++1	?*++	++++	++	

Input Set : N:\EBONY'S\ES.txt

```
E--> 5493 ????????????????????????++++++++; \+++++++, %+++++++++
E--> 5499 ++++++?%+++++++????
E--> 5501 Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu Gly Thr Thr
  5503
              620
                        625
  5507
     Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr
  5509
              635
                        640
  5513 Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile
  5515
              650
  5519 Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
  5521
              665
                        670
  5525
     Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
(g)/√ 5527
              680
  5935 <210> SEQ ID NO: 59
                      pr 26-27
  5937 <211> LENGTH: 216
  5939 <212> TYPE: PRT
  5941 <213> ORGANISM: Homo Sapien
  5945 <400> SEQUENCE: 59
  5947
     Met Arg Ser Gly Cys Val Val His Val Trp Ile Leu Ala Gly
  5949
  5953
     Leu Trp Leu Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala
  5955
              20
  5959
     Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
  5961
  5965
     His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
  5967
  5971
     Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
  5973
              65
                                    75
  5977
     Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
  5979
     Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
  5983
  5985
              95
                        100
  5989
     Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
```

RAW SEQUENCE LISTING RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/665,350A
DATE: 12/19/2001
TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

	5991					110					115					120
	5995	Ala	Phe	Glu	Glu	Glu	Ile	Arg	Pro	Asp	Gly	Tyr	Asn	Val	Tyr	Arg
	5997					125					130					135
,	6001	Ser	Glu	Lys	His	Arg	Leu	Pro	Val	Ser	Leu	Ser	Ser	Ala	Lys	Gln
	6003					140					145					150
E>	6005	++++	++++7	28+++	+++-	++? `-	++++	++++7	???0?	2222	2222	25???	2555	2222	??	
E>	6007	3333	??+++	++++	++??-	+++-	++++7	??++	++++	++??	22223	2333	23333	2222	??	
E>	6009	3555	55553	5555	2+++	+++-	+?%++	++++	+++?	+++	++++	+3333	??5??	??5??	??	
E>	6011	??5?	33333	55555	??5?!	525+-	++++	+++??	++++	+++-	+22+-	++++	+++?;	5555	5.5	
E>	6013	33333	33333	5555	53333	5555	5555	??+++	++++	++?%-	+++-	++++	? '+++	++++	++	
E>	6015	3355	5555	5555	5555	5555	5555	3333	33333	2233	5555	5555	5555			
-	6017															
E>	6019															
		3355.														
_	6023															
	6025															
	6027															
	6029															
	6031															
_ ·	6033															
	6035															
	6037															
_	6039															
_	6041 6043														<b>.</b>	
_	6045															ne
_	6047														•	
	6049															
	6051															
	6053															
	6055															
	6057															
E>	6059	22222	?????	2222	????	2222	?????	?????	????	2222	???47	????	5.5			
E>	6061	?????	?????	2222	3333	2333	2222	2555	2223	2333	2222	2222	5.5			
E>	6063	35555	?????	2555	????	?????	?????	????	????	2333	?????	2777	??			
E>	6065	22222	?????	3333	.5555	3333	33333	,5555	,5555	.555	?????	2222	??			
E>	6067	4????	2222	???4?	.5555	2555	2333	2555	25.55	3333	2333	3333	5.5			
E>	6069	22222	?????	,3333	.5555	,3,3,3	2555	3333	3555	,,,,,,	2222	,3555	.5			
E>	6071	22223	2555	, , , , , ,	2555	,3,5,5,5	2222	.5555	3333	2555	2222	.5555	??			
E>	6073	33333	55555	,5555	3333	,5555	,5555	,5555	3333	.5555	55555	.5555	5.5			
E>	6075	33553	55555	.3333	3333	,5555	,3553	5555	,3333	5555	53555	2427	.5			
E>	6077	35553	55555	, 5, 5, 5, 5	.3333	,5555	,3,5,5	.5553	, 5, 5, 5, 5,	33,33	5555	.3533	.3			
E>	6079	33333	55555	?4??	.5555	,5555	????4	3333	.5553	,5555	.5555	,5555	.5			
E>	6081	33333	53333	4???	. 5 5 5 5	77774	15555	.3333	.5555	.5555	55555	.5555	, ,			•
	6083															
	6085															
	6087															
	6089															
E>	6091	33333	???4?	, , , , , ,	7777	. 5 5 5 5	.5555	. 5.5.5.5	.5555	. 5 5 5 5	,3,3,3,3	,5555	'?			

Input Set : N:\EBONY'S\ES.txt

```
some
E--> 6129 ???????????????????????++++++++;%+++++++; \++++++++
E--> 6135 %+++++++? \+++++++???
E--> 6137
    Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
  6139
            155 ·
                     160
  6143 Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
  6145
            170
                     175
  6149 Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
  6151
            185
                     190
  6155 Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg
  6157
            200
                     205
                              210
  6161

√
    6163

    Ser Pro Ser Phe Glu Lys
  6347 <210> SEO ID NO: 64
  6349 <211> LENGTH: 312
                   or 27-28
  6351 <212> TYPE: PRT
  6353 <213> ORGANISM: Homo Sapien
  6357 <400> SEQUENCE: 64
  6359 Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg
  6361
             5
                     10
  6365
     Tyr Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser
  6367
            20
  6371 Ala Pro Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu
  6373
                     40
  6377
    Ala Ile Leu Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg
  6379
            50
                     55
  6383
    Leu Glu Trp Lys Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr
  6385
            65
E--> 6391 ???????++++++++?%+++++++?\++++++++???????5?5???o?4???
```

Input Set : N:\EBONY'S\ES.txt

```
E--> 6395 ??????????????????++++++++?%+++++++?`+++++++
Dane
E--> 6451 ???????+++++++++%+++++++?`+++++++???5?5?o??????5????
E--> 6455
   Gln Gln Thr Leu Gln Gly Asp Phe Lys Asn Arg Ala Glu Met Ile
 6457
         80
               85
 6461
   Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg Ser Asp Ala Gly
 6463
         95
               100
 6467
   Lys Tyr Arg Cys Glu Val Ser Ala Pro Ser Glu Gln Gly Gln Asn
 6469
        110
               115
 6473
   Leu Glu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro Ala
 6475
        125
               130
 6479
   Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
 6481
               145
 6485
   Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu
 6487
        155
               160
 6491
   Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg
 6493
               175
        170
 6497
   Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys
 6499
        185
               190
 6503
   Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly
 6505
        200
               205
                      210
```





Input Set : N:\EBONY'S\ES.txt

```
6509
         Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys
    6511
                      215
                                      220
                                                      225
    6515
         Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
    6517
                      230
                                      235
    6521
        Ile Ala Ala Val Val Val Ala Leu Val Ile Ser Val Cys Gly
    6523
                      245
                                      250
    6527 Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu
    6529
                      260
                                      265
    6533
         Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met
    6535
                      275
                                      280
    6539
        Ser Glu Asn Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp
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         Leu Leu Gln Ser Phe Val Leu Met Ile Leu Cys Phe His Ser
    7275
    7279
         Ala Ser Met Cys Pro Lys Gly Cys Leu Cys Ser Ser Ser Gly Gly
    7281
                      35
                                       40
    7285
        Leu Asn Val Thr Cys Ser Asn Ala Asn Leu Lys Glu Ile Pro Arg
   7287
                       50
    7291
        Asp Leu Pro Pro Glu Thr Val Leu Leu Tyr Leu Asp Ser Asn Gln
    7293
    7297
         Ile Thr Ser Ile Pro Asn Glu Ile Phe Lys Asp Leu His Gln Leu
    7299
                      80
                                      85
    7303
        Arg Val Leu Asn Leu Ser Lys Asn Gly Ile Glu Phe Ile Asp Glu
    7305
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                                      100
    7309
        His Ala Phe Lys Gly Val Ala Glu Thr Leu Gln Thr Leu Asp Leu
    7311
                      110
                                      115
    7315
        Ser Asp Asn Arg Ile Gln Ser Val His Lys Asn Ala Phe Asn Asn
    7317
                      125
                                      130
    7321
        Leu Lys Ala Arg Ala Arg Ile Ala Asn Asn Pro Trp His Cys Asp
    7323
                     140
                                      145
    7327
        Cys Thr Leu Gln Gln Val Leu Arg Ser Met Ala Ser Asn His Glu
    7329
                                      160
    7333
        Thr Ala His Asn Val Ile Cys Lys Thr Ser Val Leu Asp Glu His
    7335
                      170
                                      175
Ma 30-35
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RAW SEQUENCE LISTING DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

E> 7349 %++++++++?????????????????????5?5?5??????
E> 7351 +++++++??+++++++++???????????????????
7353 ++++++?`+++++++?%+++++++++?????????????
E> 7355 o????++++++++??++++++++??+++++++????????
E> 7357 ???????????+++++++?`++++++*%+++++++??????????
E> 7359 ???o?o?5?????????+++++++??++++++??++++++??????
E> 7361 ?????????????????????+++++++;`++++++?%+++++++
E> 7363 ??5??????????????????????++++++++?++++++
E> 7365 +++++++?????????????????????????????++++
E> 7367 ++++++?%++++++++?????5?????????????????
E> 7369 ++++??+++++++??+++++++???????????????
E> 7371 +++++?`+++++++????????????????????????
E> 7373 ?????????????????????????????????
E> 7375 ??????????????????????????????????
E> 7377 ?????????????????????????????????
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E> 7385 ?????????4???????????????????????????
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E> 7391 ???4???????????4??????4??????????????
E> 7393 ??????????????????????????????????
E> 7395 ????????????????????????????????????
7397 ???????????????????????????????????
E> 7399 ??????????????????????????????????
E> 7401 ??4?????????????????????????????????
E> 7403 ????????????????????????????????????
E> 7405 ????????????????????????????????????
7407 ???????????????????????????????????
E> 7409 ?????????????????4??????????????????
E> 7411 ??????????????????????????????????
E> 7413 ????????????????????????????????????
E> 7415 ????????????????????????????????????
E> 7417 ?4????????????????????????????????
E> 7419 ??????4????????4????????????????????
E> 7421 ????????????????????????????????????
E> 7423 ????????????????4???????????????????
7425 ???????????????????4????????????????
E> 7427 ??????????????????????????????????
E> 7429 ????4?????????4?????????????????????
E> 7431
> 7433 ??????????????????????????????????
E> 7435 ????????????????????????????????????
E> 7437 ??????????????????????????????????
E> 7439 ??4?????????????????????????????????
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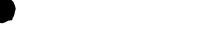
DATE: 12/19/2001 PATENT APPLICATION: US/09/665,350A TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

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E>	7451	???????????????????????????????????????
E>	7453	???????????????4???o?4???5???????5?5??5???+
E>	7455	?+++++?+++++++++++++++++++++++?????????
E>	7457	?????+++++++?%+++++++?`++++++?????5??????????
E>	7459	0????????++++++++++++++++++++++++++++++
E>	7461	???????????????+++++++?%++++++?`+++++++???5?????
E>	7463	?????5???????????5??++++++++++++++++++?+
E>	7465	?????????????????????????+++++++;%+++++++
E>	7467	++++????????5????5?0?5???????????++++++++
E>	7469	+??++++++;?????????????????????????????
E>	7471	?%+++++++?`+++++++???????5?5?5????5??5??5???
E>	7473	?++++++??++++++??++++++????????????????
E>	7475	???????++++++++?%+++++++++?`+++++++???5?5??????????
E>	7477	????????5???++++++++??+++++++??++++++??????
E>	7479	???????????????????+++++++;%+++++++; `+++++++?????
E>	7481	??o???o???5????5?5???5?4??+++++++??++++++++++
E>	7483	+???????????????????????????
E>	7485	?`++++++???5?????5????5?????????????
E>	7487	?++++++??+++++;????????????????????????
E>	7489	?++++++?%++++++; `++++++;????????????????????????
E>	7491	???????+++++++??++++++??++++++?????????
E>	7493	????????????++++++++?%+++++++; `+++++++??????????????
E>	7495	???????o??????4?5??+++++++?`++++++*%+++++++???5??
E>	7497	?5?5???????4???5?5?????+++++++??++++++??++++++
E>	7499	????????????????????????????
E>	7501	?%++++++??????????????5??????????????
E>	7503	?++++++??++++++????????????????????????
E>	7505	?+++++++?`++++++?%++++++++???5?????5??????????
E>	7507	5??????+++++++??++++++??+++++++????????
E>	7509	????????????+++++++?`++++++?%++++++????????
E>	7511	?4?????????????4??++++++??++++++??+++++??????
E>		??????????????????????+++++++++
_		+?????????????????0?4?4?5?????+++++++??++++++?
		?++++++;?????????????????????????????
		`+++++++?%+++++++??????????????????????
_		++++++??++++++??+++++++????????????????
E>		??????+++++++?`++++++?%++++++++?????????
E>		??????5???++++++++??++++++??++++++??????
	-	???????????????++++++++;`+++++++*
		??????5??????????????++++++++??++++++??++++++
		?????????????????????????
		%++++++++??????????????????????????++++++
_		++++++??++++++?????????????????????????
		++++++?`+++++++++++++++++++++++++++++++
		?????+++++++??+++++++;?+++++++++++;??????
		??????????++++++++; `+++++++; %+++++++; ?????????????
E>	/543	?????o??????????+++++++?%+++++++?`+++++++????????

Input Set : N:\EBONY'S\ES.txt

	4-														
		???????									_			•	
_		3333333												_	
		+++++												F	
E>		++++??+											_		
	7553	+++?%++	-++++	+3,+-	++++	+++?'	3.5.5.5.	????	????!	5???	????	????	??5?		
E>	7555	335+++4	++++5	?+++·	++++	+33+	++++	+++??	5555	5555	33333	33333	5555	3.5	
E>	7557	3333333	333++	++++	++?%	++++	++++	,++-	++++	++??	33333	???5	5555	5.5	
E>	7559	3333333	?????5	3333-	++++	++++	33++-	++++	++53-	++++	++++;	33333	5555	3.5	
E>	7561	3333333	.33333	33333	5555	5555	3333	5555	5555	???4	5555	555			
E>	7563	???4???	.33333	3555	5555	5555	3333	5555	3333	5555	33333	3.5			
E>	7565	3333333	?????4	33333	5555	??4?	33333	5555	3333	3333	3333	3.5			
E>	7567	3555555	. 5 5 5 5 5	33333	5555	5555	33333	23333	33333	5555	5555	??			
E>	7569	355555	. 5 5 5 5 5	??4?	5555	5555	33333	33333	5355	5555	3355	3.5			
E>	7571	3333333	. 5 5 5 5 5	5555	24??	5555	5555	1255	3333	5555	??4?	??			
E>	7573	3333333	4????	3555	5555	3333	5555	5555	5555	33333	??4?	3.5			
E>	7575	3333333	???4?	3555	2222	3333	33333	2222	2223	5555	23333	3.5			
E>	7577	3333333	55555	3555	2222	????	????	55555	5555	23333	23333	??			
E>	7579	3333333	55555	?4???	2222	5555	4????	33333	5555	23333	33333	??			
E>	7581	???????	23333	33333	2222	5555	2222	?????	????	??4?	2222	??			
E>	7583	??????4	33333	2555	2222	5555	????	1222	2355	2333	2333	??			
E>	7585	??????4	33333	35553	????	3333	2222	33333	5555	2555	3333	??			
E>	7587	???????	33333	33333	2333	2333	2222	2222	2222	???4	2222	??			
E>	7589	????4??	33333	22222	2222	???4	2222	?????	2222	????	????	??			
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E>	7595	3333333	33333	?????	2222	2222	23333	5555	3333	23333	2223	??			
E>	7597	222223	33333	??4?	??5??	??0?!	5?0?!	5222	????!	52224	1??+?	+++			
E>	7599	++++?++	++++	++?+-	++++	++++;	?????	?????	2333	????	23333	2222	23333	??	
E>	7601	??++++	+++?%	++++	++++	? '++	++++	++???	5555	24??	23333	2333	75???	??	
E>	7603	???????	?++++	++++	+?++-	++++	+++?-	++++	++++	+3333	2222	3335	2222	555	
	7605	???????	?????	??++-	++++	++?%-	++++	++++;	?`++-	+++-	++???	?0?51	?????	?5	
E>	7607	?????5?	5???5	?0???	5555-	++++	++++	+?++	++++	+++?-	++++	++++	+3353	???	
E>	7609	???????	55555	35553	2222	3333	??++-	++++	++?%-	++++	++++7	.++,	++++	++	
E>	7611	3333333	5???5	33333	5555	???5	5555	9023-	++++	++++	+?++	++++	++??		
E>	7613	++++++	+3333	35553	5555	3333	2222	2222	5355	5555	?+++	++++	+?%+		
E>	7615	++++++	.5,+++	++++	+3333	??0?	5555	5555	5555	5555	5555	5555	?+++	١	
E>	7617	++++??+	++++	++??-	++++	++++;	5555	5555	5555	5555	5555	5555	22331	?	
	7619	3555+++	+++++	?&++-	++++	++3,-	++++	+++1	????	???51	?????	???51	?????	24	
		3333333											5555	??	
E>	7623	3333333	55555	33333	2+++	++++	+?%++	++++	+++?	++++	++++	<b>F</b> ???		•	
E>	7625	Ala Gl	y Arg	Pro	Phe	Leu	Asn	Ala	Ala	Asn	Asp	Ala	Asp	Leu	Cys
	7627				185					190					195
	7631	Asn Le	u Pro	Lys	Lys	Thr	Thr	Asp	Tyr	Ala	Met	Leu	Val	Thr	Met
	7633				200					205					210
	7637	Phe Gl	y Trp	Phe		Mèt	Val	Ile	Ser	_	Val	Val	Tyr	$\mathtt{Tyr}$	Val
	7639				215					220					225
	7643	Arg Gl	n Asn	Gln		Asp	Ala	Arg	Arg		Leu	Glu	Tyr	Leu	-
	7645				230					235					240
	7649	Ser Le	u Pro	Ser	Arg	Gln	Lys	Lys	Ala	Asp	Glu	Pro	Asp	Asp	Ile





Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

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Input Set : N:\EBONY'S\ES.txt

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E>	7955	+++++++?%+++++++?`+++++++??????????????
E>	7957	?5????+++++++??++++++??++++++??????????
E>	7959	???????????++++++++?%+++++++?`+++++++???5?????????
		?????5??????????*+++++++??+++++++??+++++++??????
		?????????????????????+++++++?%+++++++++
		?????5?5????5???????????????
_		?++++++??????????????????????????????
E>	7969	%+++++++?`++++++???????????????????????
E>	7971	++++++??++++++??++++++?????????????????
E>	7973	??????+++++++?%+++++++?`++++++???5?4???5??????????
E>	7975	?????5?????++++++++??++++++??++++++??????
E>	7977	?????????????????+++++++?%++++++?`+++++++???????
E>	7979	??????????o????????????+++++++??++++++??++++++
		?????????????????????????
_		\+++++++??????????????????????????????
_		
		??????????????????4????????????????????
		???????????????????????????????????????
_		???????????????????????????????????????
E>	7991	??????????????????4????????????????????
E>	7993	???????????????????????????????????????
E>	7995	???????????????????????????????????????
E>	7997	???????????????????????????????????????
E>	7999	???????????????????????????????????????
E>	8001	???????????????4???????????????????????
E>	8003	???????4???????????????????????????????
E>	8005	???????????????????4???????????????????
E>	8007	??????????????????????4????????????????
E>	8009	???4????????4??????????????????????????
		????????????????????????4??????????????
		777777777777777777777777777777777777777
		???????????????????????????????????????
		?????????4???????????????????????
		4??????????????????????????????????????
		777777777777477777777777777777777777777
_		777777777777777777777777777777777777777
		???????????????????????????????????????
E>	8027	????????4??????????????????????????
E>	8029	???????????????????????????????????????
E>	8031	???????????????????????????????4???????
E>	8033	?????????????????????????4???????????
E>	8035	?????4?????????????????????????????????
E>	8037	???????????????????????????????????????
E>	8039	???????????????????????????4??????????
		???????????????4???????????????????????
		747777777777777777777777777777777777777
		???????????????????????????????????????
		???????????????????????????????????????
	•	777777777777777777777777777777777777777
/	3033	

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

```
8079
 8107 ????????????++++++++?`+++++++*%+++++++????????5????
E-->
8111 ??????????????????????+++++++?`++++++
E--> 8117
 E-->
E--> 8125 ??????????????????++++++++?`+++++?%+++++++???????
E--> 8131 %+++++++2?25?0???????5???5??????????????+++++++??+
8139 ??????????+++++++; `++++++?%++++++???????????????
E--> 8143 ??????????????????????+++++++;`++++++;%++++++++
E--> 8145 ???????4?5?5?????????????????+++++++??++++++??+
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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

> Use of n and/or Xaa has been detected in the Sequence Listins: Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

delete trèse non-ASGI characters

```
ĐÏ□à;
             ŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸ
\square\square\square\square\square\square\squareV\square\square\square\square\square\square; \square\square\square\square\square\square\square; \square\square\square\square\square\square\square; \square\square; \square\square\square\square\square\square\square; \square\square; \square\square\square\square\square\square\square\square\square; \square\square\square\square\square\square\square\square\square; \square\square\square\square\square\square\square\square
ÄBBBBB' ÄBBBBB' ÄBB-BBB; ÄBBÔBBB" ÅBBÔBBB' ÆBBBBBBC & BBBBBC & ÆBBBBBB
^{\circ} ÁDAÂDED ^{\circ} ÁDADAMADADADA | ÄDACAMOBERORADABADE ARANDARORADA ARANDADA | ÄDACAMOBERORADADA | ÄDACAMOBERORADADA |
Sequence
Listing
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<110> Genentech, Inc. Ashkenazi, Avi Botstein, David Desnoyers, Luc Eaton, Dan L. Ferrara, Napoleone Filvaroff, Ellen Fong, Sherman Gao, Wei-Qiang Gerber, Hanspeter Gerritsen, Mary E. Goddard, A. Godowski, Paul J. Grimaldi, Christopher J. Gurney, Austin L. Hillan, Kenneth, J. Kljavin, Ivar J. Mather, Jennie P. Pan, James Paoni, Nicholas F. Roy, Margaret Ann Stewart, Timothy A. Tumas, Daniel Williams, P. Mickey Wood, William, I.

<120> Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

<130> 10466-14

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#### VERIFICATION SUMMARY DATE: 12/19/2001 PATENT APPLICATION: US/09/665,350A TIME: 10:29:08

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

L:75 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:77 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:83 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:85 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:91 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:93 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:99 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:101 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:107 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:109 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:115 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:117 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:123 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:125 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:131 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:133 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:139 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:141 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:147 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:149 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:155 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE: YYYY-MM-DD L:157 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:163 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:165 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:171 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:173 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:179 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:181 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:187 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:189 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:195 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:199 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:201 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE: L:451 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:451 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 L:453 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2 L:453 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:453 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 M:332 Repeated in SeqNo=2 L:455 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:455 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 L:457 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:457 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 L:459 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:459 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 L:461 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:461 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 L:463 M:333 E: Wrong sequence grouping, Amino acids not in groups!

### VERIFICATION SUMMARY PATENT APPLICATION: US/09/665,350A DATE: 12/19/2001 TIME: 10:29:08

Input Set : N:\EBONY'S\ES.txt

```
L:463 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:465 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:465 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:467 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:467 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:469 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:469 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:471 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:471 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:473 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:473 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:475 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:475 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:545 M:252 E: No. of Seq. differs, <211>LENGTH:Input:353 Found:357 SEQ:2
L:855 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:855 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:857 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:857 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:857 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
M:332 Repeated in SeqNo=4
L:859 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:859 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:861 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:861 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:863 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:863 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:865 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:865 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:867 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:867 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:869 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:869 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:871 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:871 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:873 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:873 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:875 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:875 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:877 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:877 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:879 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:881 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:881 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:883 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:883 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:885 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:885 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:887 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:887 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
```

#### VERIFICATION SUMMARY PATENT APPLICATION: US/09/665,350A DATE: 12/19/2001 TIME: 10:29:08

Input Set : N:\EBONY'S\ES.txt

```
L:889 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:889 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:891 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:891 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:893 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:893 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:895 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:895 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:897 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:897 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:899 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:899 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:901 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:901 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:903 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:903 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:905 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:905 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:909 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:909 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:911 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:911 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:913 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:913 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:917 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:917 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:919 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:919 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:921 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:921 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:923 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:923 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:925 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:925 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:929 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:929 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:931 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:931 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:933 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:933 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:935 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:1051 M:252 E: No. of Seq. differs, <211>LENGTH:Input:379 Found:398 SEQ:4
L:1477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:2399 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
M:332 Repeated in SeqNo=28
```

#### VERIFICATION SUMMARY PATENT APPLICATION: US/09/665,350A DATE: 12/19/2001 TIME: 10:29:08

Input Set : N:\EBONY'S\ES.txt

```
L:3097 M:252 E: No. of Seq. differs, <211>LENGTH:Input:660 Found:714 SEQ:28
L:3529 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34
M:332 Repeated in SeqNo=34
L:4095 M:252 E: No. of Seq. differs, <211>LENGTH:Input:915 Found:948 SEQ:34
L:4407 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
M:332 Repeated in SeqNo=39
L:4599 M:252 E: No. of Seq. differs, <211>LENGTH:Input:390 Found:404 SEQ:39
L:5153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:49
M:332 Repeated in SeqNo=49
L:5527 M:252 E: No. of Seq. differs, <211>LENGTH:Input:690 Found:718 SEQ:49
L:5557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:6007 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59
M:332 Repeated in SeqNo=59
L:6163 M:252 E: No. of Seq. differs, <211>LENGTH:Input:216 Found:223 SEQ:59
L:6391 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:64
M:332 Repeated in SeqNo=64
L:6547 M:252 E: No. of Seq. differs, <211>LENGTH:Input:312 Found:315 SEQ:64
L:7339 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:71
M:332 Repeated in SeqNo=71
L:7655 M:252 E: No. of Seq. differs, <211>LENGTH:Input:259 Found:296 SEQ:71
L:7879 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:73
M:332 Repeated in SeqNo=73
L:9441 M:252 E: No. of Seq. differs, <211>LENGTH:Input:620 Found:762 SEQ:73
L:9837 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEO ID:84
M:332 Repeated in SegNo=84
L:10267 M:252 E: No. of Seq. differs, <211>LENGTH:Input:398 Found:425 SEQ:84
L:11275 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:96
M:332 Repeated in SeqNo=96
L:11677 M:252 E: No. of Seq. differs, <211>LENGTH:Input:490 Found:523 SEQ:96
L:12465 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:109
M:332 Repeated in SeqNo=109
L:12823 M:252 E: No. of Seq. differs, <211>LENGTH:Input:420 Found:444 SEQ:109
L:13031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:13855 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:127
M:332 Repeated in SeqNo=127
L:14867 M:252 E: No. of Seq. differs, <211>LENGTH:Input:282 Found:379 SEQ:127
L:15099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:15671 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:137
M:332 Repeated in SeqNo=137
L:16295 M:252 E: No. of Seq. differs, <211>LENGTH:Input:382 Found:451 SEQ:137
L:17403 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:153
M:332 Repeated in SeqNo=153
L:18347 M:252 E: No. of Seq. differs, <211>LENGTH:Input:310 Found:423 SEQ:153
L:18719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:159
M:332 Repeated in SeqNo=159
L:18827 M:252 E: No. of Seq. differs, <211>LENGTH:Input:300 Found:310 SEQ:159
L:20031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:20213 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:175
M:332 Repeated in SeqNo=175
```

VERIFICATION SUMMARY DATE: 12/19/2001 PATENT APPLICATION: US/09/665,350A TIME: 10:29:08

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

 $\tt L\!:\!21369~M\!:\!341~W\!:$  (46) "n" or "Xaa" used, for SEQ ID#:175 L:21413 M:252 E: No. of Seq. differs, <211>LENGTH:Input:636 Found:740 SEQ:175 L:22841 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:190 M:332 Repeated in SeqNo=190 L:24077 M:252 E: No. of Seq. differs, <211>LENGTH:Input:607 Found:749 SEQ:190  $L\!:\!25169$  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 L:25173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 L:25319 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:207 M:332 Repeated in SeqNo=207 L:25381 M:252 E: No. of Seq. differs, <211>LENGTH:Input:296 Found:304 SEQ:207 L:25731 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:213 M:332 Repeated in SeqNo=213 L:25903 M:252 E: No. of Seq. differs, <211>LENGTH:Input:360 Found:369 SEQ:213 L:26719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:227 M:332 Repeated in SeqNo=227 L:26961 M:252 E: No. of Seq. differs, <211>LENGTH:Input:550 Found:268 SEQ:227 L:205 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (423) Counted (227)

This application file contains additional errors ! Only the first 1000 errors are shown above !